



**PATENT APPLICATION**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Docket No: CA1130

Boaz KENAN, et al.

Express Mail No. EV 538915775 US

Appln. No.: 09/851,779

Group Art Unit: 2623

Confirmation No.: 4385

Examiner: J. MANCUSO

Filed: May 8, 2001

For: METHOD AND APPARATUS FOR RETICLE INSPECTION USING AERIAL  
INSPECTION

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §§ 1.97 and 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

One copy of each of the listed documents is submitted herewith, except for the following: U.S. patents and/or U.S. patent publications; and co-pending non-provisional U.S. applications filed after June 30, 2003.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date; (2) Before the mailing date of the first Office Action on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after

**INFORMATION DISCLOSURE STATEMENT**  
U.S. Appln. No.: 09/851,779

filing a request for continued examination (RCE) under §1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this paper is attached.

Respectfully submitted,



\_\_\_\_\_  
Joseph Bach  
Registration No. 37,771

SUGHRUE MION, PLLC  
Telephone: (650) 625-8100  
Facsimile: (650) 625-8110

MOUNTAIN VIEW OFFICE

**23493**

CUSTOMER NUMBER

Date: October 6, 2005

Substitute for Form 1449 A & B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				Complete if Known	
				Application Number	09/851,779
				Confirmation Number	4385
				Filing Date	May 08, 2001
				First Named Inventor	Boaz KENAN
				Art Unit	2623
				Examiner Name	J. MANCUSO
Sheet	1	of	2	Attorney Docket Number	CA1130

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
		US 6,016,357		01-18-2000	Neary et al.
		US 6,072,898		06-06-2000	Beaty et al.
		US 6,148,097		11-14-2000	Nakayama et al.
		US 6,075,883		06-13-2000	Stern et al.
		US 6,025,905		02-15-2000	Sussman
		US 6,052,478		04-18-2000	Wihl et al.
		US 6,018,392		01-25-2000	Tzu et al.
		US 6,081,659		06-27-2000	Garza et al.
		US 6,078,738		06-20-2000	Garza et al.
		US 5,745,168		04-28-1998	Ninomiya
		US 5,744,381		04-28-1998	Tabata et al.
		US 5,441,834		08-15-1995	Takekuma et al.
		US 5,272,116		12-21-1993	Hosono
		US 4,922,308		05-01-1990	Noguchi et al.
		US 4,148,065		04-03-1979	Nakagawa et al.
		US 5,572,598		11-05-1996	Wihl et al.
		US 6,091,845		07-18-2000	Pierrat et al.
		US 5,965,306	A	10-12-1999	Mansfield et al.
		US 6,335,129	B1	01-01-2002	Asano et al.
		US 5,576,829	A	11-19-1996	Shiraishi et al.
		US 2002/0171825	A1	11-21-2002	Krantz et al.

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>
		BUDD, RUSSELL A., et al., "A New Tool for Phase Shift Mask Evaluation, the Stepper Equivalent Aerial Image Measurement System - AIMS™," <i>SPIE</i> , Vol. 2087 Photomask Technology and Management (1993).	
		SCHENKER, RICHARD, "Comparison of Single and Dual Exposure Phase Shift Mask Approaches for Poly Gate Patterning," <i>SPIE</i> , Vol. 3546, September 1998.	
		LEVENSON, MARC D., et al., "Improving Resolution in Photolithography with a Phase Shifting Mask," <i>IEEE Transactions on Electron Devices</i> , Vol. ED-29, No. 12, December 1982.	
		BUDD, R.A., et al., "A New Mask Evaluation Tool, the Microlithography Simulation Microscope Aerial Image Measurement System," <i>Optical/Laser Microlithography 7</i> , San Jose, March 2-4, 1994, Proceedings of SPIE, Optical/Laser Microlithography, Bellingham, SPIE, US Vol. 2197, pages 530-540.	

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or in the comment box of this document. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to indicate here if English language Translation is attached.

Substitute for Form 1449 A & B/PTO <b><u>INFORMATION DISCLOSURE</u></b> <b><u>STATEMENT BY APPLICANT</u></b> (use as many sheets as necessary)				<i>Complete if Known</i>	
				Application Number	09/851,779
				Confirmation Number	4385
				Filing Date	May 08, 2001
				First Named Inventor	Boaz KENAN
				Art Unit	2623
				Examiner Name	J. MANCUSO
Sheet 2 of 2				Attorney Docket Number	CA1130

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
		US 6,327,033		12-04-2001	Ferguson et al.
		US 6,078,393		06-20-2000	Oohashi et al.
		US 6,580,502		06-17-2003	Kuwabara
		US			
		US			
		US			
		US			
		US			
		US			

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or in the comment box of this document. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.